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John C. Polking Nakhlé H. Asmar Keengwe, Jared Indian Institute of Science, Bangalore Arthur James Wells Mokhtar S. Bazaraa

this very accessible guide offers a thorough introduction to the basics of differential equations and linear algebra expertly integrating the two topics it explains concepts clearly and logically without sacrificing level or rigor and supports material with a vast array of problems of varying levels for readers to choose from promotes in depth understanding vs rote memorization enabling readers to fully comprehend abstract concepts and finish with a solid and working knowledge of linear mathematics offers one of the most lucid and clearly written narratives on the subject with material that is accessible to the average reader yet challenging to all presents a greater emphasis on geometry to help users better visualize the abstract concepts and illustrates all concepts with an ample amount of worked examples second edition highlights include new discussions direction fields and euler s method for first order differential equations row space and column space of a matrix and the rank nullity theorem non linear systems of differential equations including phase plane analysis and change of variables for differential equations now features a chapter on second order linear differential equations that isnot based on vector space methods to gives users a firmer grasp of the differential equation concept early on and also on the solution techniques for this important class of differential equations

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description

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differential equations and linear algebra is designed for use in combined differential equations and linear algebra courses it is best suited for students who have successfully completed three semesters of calculus differential equations and linear algebra presents a carefully balanced and sound integration of both differential equations and linear algebra it promotes in depth understanding rather than rote memorization enabling students to fully comprehend abstract concepts and leave the course with a solid foundation in key areas flexible in format it explains concepts clearly and logically with an abundance of examples and illustrations without sacrificing level or rigor the fourth edition includes many updated problems to support the material with varying difficulty levels from which students instructors can choose

intended to follow the usual introductory physics courses this book has the unique feature of addressing the mathematical needs of sophomores and juniors in physics engineering and other related fields beginning with reviews of vector algebra and differential and integral calculus the book continues with infinite series vector analysis complex algebra and analysis ordinary and partial differential equations discussions of numerical analysis nonlinear dynamics and chaos and the dirac delta function provide an introduction to modern topics in mathematical physics this new edition has been made more user friendly through organization into convenient shorter chapters also it includes an entirely new section on probability and plenty of new material on tensors and integral transforms some

praise for the previous edition the book has many strengths for example each chapter starts with a preamble that puts the chapters in context often the author uses physical examples to motivate definitions illustrate relationships or culminate the development of particular mathematical strands the use of maxwell s equations to cap the presentation of vector calculus a discussion that includes some tidbits about what led maxwell to the displacement current is a particularly enjoyable example historical touches like this are not isolated cases the book includes a large number of notes on people and ideas subtly reminding the student that science and mathematics are continuing and fascinating human activities physics today very well written i e extremely readable very well targeted mainly to an average student of physics at a point of just leaving his her sophomore level and very well concentrated to an author s apparently beloved subject of pde s with applications and with all their necessary pedagogically mathematical background the main merits of the text are its clarity achieved via returns and innovations of the context balance building the subject step by step and originality recollect the existence of the complex numbers is only admitted far in the second half of the text last but not least the student reader is impressed by the graphical quality of the text figures first of all but also boxes with the essentials summarizing comments in the left column etc summarizing well done zentralblatt math

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this is the first truly up to date treatment of calculus of variations and the first to incorporate a simple introduction to key concepts such as optimization optimal control bang bang pontryagin s maximum principle or lq control design introduces all material using simple easily understood applications that are worked and reprised several times throughout features a large number of exercises ranging widely in difficulty gives readers a broader big picture perspective that makes the material less overwhelming offers a useful stand alone discussion of matlab matlab cookbook in the appendices includes a clear introduction to weak strong sufficiency a useful reference for engineers chemists and forest environmental managers

combining traditional material with a modern systems approach this handbook provides a thorough introduction to differential equations tempering its classic pure math approach with more practical applied aspects features up to date coverage of key topics such as first order equations matrix algebra systems and phase plane portraits illustrates complex concepts through extensive detailed figures

focuses on interpreting and solving problems through optional technology projects for anyone interested in learning more about differential equations

this example rich reference fosters a smooth transition from elementary ordinary differential equations to more advanced concepts asmar s relaxed style and emphasis on applications make the material accessible even to readers with limited exposure to topics beyond calculus encourages computer for illustrating results and applications but is also suitable for use without computer access contains more engineering and physics applications and more mathematical proofs and theory of partial differential equations than the first edition offers a large number of exercises per section provides marginal comments and remarks throughout with insightful remarks keys to following the material and formulas recalled for the reader s convenience offers mathematica files available for download from the author s website a useful reference for engineers or anyone who needs to brush up on partial differential equations

the growing trend for high quality computer science in school curricula has drawn recent attention in classrooms with an increasingly information based and global society computer science education coupled with computational thinking has become an integral part of an experience for all students given that these foundational concepts and skills intersect cross disciplinarily with a set of mental competencies that are relevant in their daily lives and work while many agree that these concepts should be taught in schools there are systematic inequities that exist to prevent students from accessing related computer science skills the handbook of research on equity in computer science in p 16 education is a comprehensive reference book that highlights relevant issues perspectives and challenges in p 16 environments that relate to the inequities that students face in accessing computer science or computational thinking and examines methods for challenging these inequities in hopes of allowing all students equal opportunities for learning these skills additionally it explores the challenges and policies that are created to limit access and thus reinforce systems of power and privilege the chapters highlight issues perspectives and challenges faced in p 16 environments that include gender and racial imbalances population of growing computer science teachers who are predominantly white and male teacher preparation or lack of faculty expertise professional development programs and more it is intended for teacher educators k 12 teachers high school counselors college faculty in the computer science department school administrators curriculum and instructional designers directors of teaching and learning centers policymakers researchers and students

comprehensive coverage of nonlinear programming theory and algorithms thoroughly revised and expanded nonlinear programming theory and algorithms now in an extensively updated third edition addresses the problem of optimizing an objective function in the presence of equality and inequality constraints many realistic problems cannot be adequately represented as a linear program owing to the nature of the nonlinearity of the objective function and or the nonlinearity of any constraints the third edition begins with a general introduction to nonlinear programming with illustrative examples and guidelines for model construction concentration on the three major parts of nonlinear programming is provided convex analysis with discussion of topological properties of convex sets separation and support of convex sets polyhedral sets extreme points and extreme directions of polyhedral sets and linear programming optimality conditions and duality with coverage of the nature interpretation and value of the classical fritz john fj and the karush kuhn tucker kkt optimality conditions the interrelationships between various proposed constraint qualifications and lagrangian duality and saddle point optimality conditions algorithms and their convergence with a presentation of algorithms for solving both unconstrained and constrained nonlinear programming problems important features of the third edition include new topics such as second interior point methods nonconvex optimization nondifferentiable optimization and more updated discussion and new applications in each chapter detailed numerical examples and graphical illustrations essential coverage of modeling and formulating nonlinear programs simple numerical problems advanced theoretical exercises the book is a solid reference for professionals as well as a useful text for students in the fields of operations research management science industrial engineering applied mathematics and also in engineering disciplines that deal with analytical optimization techniques the logical and self contained format uniquely covers nonlinear programming techniques with a great depth of information and an abundance of valuable examples and illustrations that showcase the most current advances in nonlinear problems

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